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Hoang

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(54) **BOOMERANG**

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See application file for complete search history.

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(57) **ABSTRACT**

The invention relates to a boomerang that can automatically change both elevation angle α of blades and curve radius r of blades upon the change of rotary speed of blades (**12**), wherein blades (**12**) are made of elastically plastic film preferably selected from a group of polyvinyl chloride, polypropylene, polyethylene terephthalate, polystyrene and high impact polystyrene, the material has a specific weight of from about 0.9 g/cm^3 to about 1.60 g/cm^3 and as thickness from about 0.1 mm to about 1 mm; the ratio between the depth of the rear groove and blade width is from about 1/7 to about 6/7; the ratio between depth of the front groove and blade width is from about 0 to about 3/7; the elevation angle α0 is from about 10° to about 45°; the initial curve radius r_0 of the blades is longer or equal to 1/5 of the radius R of said ring (**13**); the ratio between the total area of said blades and the area of a circle defined by said ring (**13**) is from about % to about 38%.

18 Claims, 5 Drawing Sheets